

HOUSATONIC RIVER BASIN

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'11", long 73°29'25", Litchfield County, Hydrologic Unit 01100005, on left bank 0.4 mi downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi upstream from bridge on U.S. Route 7 at Gaylordsville, 1.5 mi downstream from Tenmile River, and at mile 50.6.

DRAINAGE AREA.--996 mi².

PERIOD OF RECORD.--Discharge: October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary), July 1940 to current year.

Water-quality records: Water years 1960, 1968.

Daily water temperature: Water years 1960, 1968.

Daily suspended-sediment discharge: Water years 1979-80.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft above sea level. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi downstream at different datum. Telephone telemetry at station.

REMARKS.--Records good except those for periods of estimated daily discharges, which are fair. Ordinary flow regulated by power plant upstream. High flow is regulated by flood-control reservoirs in 20.5 mi² of the Blackberry River basin, but flood control does not affect monthly runoff appreciably.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1854 reached a stage of 21 ft 3 in, former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft, from floodmarks, at present site, discharge, 37,000 ft³/s, by computation of peak flow over dam 2.5 mi upstream adjusted for flow from intervening area.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	476	804	e320	2110	2530	2970	1030	1380	1760	197	207
2	221	452	801	e300	3020	3390	2720	938	1240	1250	198	172
3	311	464	698	472	5390	3010	2590	883	1100	951	189	171
4	220	435	631	792	5240	5170	2480	854	985	793	163	169
5	285	410	694	695	4900	5940	2340	976	987	1050	159	167
6	297	423	662	e630	3960	5280	2200	1090	864	1150	163	167
7	280	391	633	e575	3230	4340	2090	1190	781	955	160	162
8	451	430	610	e550	2880	3200	1880	1200	667	818	159	160
9	928	397	601	717	2560	2690	1760	1110	775	807	221	201
10	1020	385	637	1520	2380	2530	1610	1110	726	628	153	481
11	1590	507	655	1600	2180	2330	1560	1030	672	544	152	266
12	1440	541	611	1470	2010	2110	1570	1050	550	588	152	360
13	1150	605	576	1310	2170	1950	1480	1010	558	520	152	352
14	1090	636	577	e1200	2170	1830	1360	806	580	456	162	203
15	1170	568	520	e1100	1890	1880	1290	760	566	314	215	272
16	1030	484	460	1490	1800	1850	1170	753	543	359	273	1260
17	882	526	520	1680	1730	1940	1170	622	496	357	383	7280
18	850	418	502	2110	2130	2150	1320	671	508	223	318	6140
19	576	557	508	4470	2760	2310	1360	1300	509	314	234	4210
20	627	504	511	4520	e2200	2230	1330	5690	497	416	191	2550
21	644	493	503	3880	e1800	1980	1230	5090	505	320	237	1950
22	545	499	536	3660	e1500	5310	1150	4240	448	317	238	2380
23	443	495	763	3490	1350	8400	1220	3330	410	335	264	2310
24	539	513	776	5650	1460	7150	1510	e3100	403	311	242	2010
25	557	500	693	9090	1410	6110	1610	e4100	345	282	238	1690
26	391	601	535	8150	1330	4910	1440	e3400	308	260	244	1310
27	543	1060	440	6630	1280	3900	1270	2990	307	241	251	1060
28	532	1350	614	4980	1350	3520	1020	2450	297	250	249	1010
29	496	1220	e525	3750	---	3470	1170	2120	351	212	239	895
30	474	960	e460	2930	---	3200	979	1760	1310	249	231	1190
31	614	---	e370	2210	---	2970	---	1560	---	197	228	---
TOTAL	20445	17300	18426	81941	68190	109580	48849	58213	19668	17227	6655	40755
MEAN	660	577	594	2643	2435	3535	1628	1878	656	556	215	1358
MAX	1590	1350	804	9090	5390	8400	2970	5690	1380	1760	383	7280
MIN	220	385	370	300	1280	1830	979	622	297	197	152	160
CF5M	.66	.58	.60	2.65	2.45	3.55	1.63	1.89	.66	.56	.22	1.36
IN.	.76	.65	.69	3.06	2.55	4.09	1.82	2.17	.73	.64	.25	1.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)

MEAN	935	1435	1760	1880	1897	3041	3506	2213	1410	870	725	633
MAX	4500	5024	4926	6599	4398	6529	6685	5079	4538	3323	4433	2297
(WY)	1956	1956	1997	1949	1976	1977	1993	1989	1984	1972	1955	1975
MIN	203	203	411	288	592	1037	972	810	389	236	213	153
(WY)	1965	1965	1965	1981	1980	1965	1985	1965	1964	1965	1964	1995

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	550960		507249			
ANNUAL MEAN	1509		1390		1690	
HIGHEST ANNUAL MEAN					2557	1996
LOWEST ANNUAL MEAN					572	1965
HIGHEST DAILY MEAN	7040	Jun 17	9090	Jan 25	38800	Aug 19 1955
LOWEST DAILY MEAN	189	Sep 16	152	Aug 11	^a 60	Aug 31 1944
ANNUAL SEVEN-DAY MINIMUM	213	Sep 12	164	Aug 7	104	Aug 18 1981
INSTANTANEOUS PEAK FLOW			11300	Jan 25	51800	Aug 19 1955
INSTANTANEOUS PEAK STAGE			9.20	Jan 25	18.58	Aug 19 1955
INSTANTANEOUS LOW FLOW			133	Aug 4	^b 30	Oct 28 1914
ANNUAL RUNOFF (CFSM)	1.52		1.40		1.70	
ANNUAL RUNOFF (INCHES)	20.58		18.95		23.05	
10 PERCENT EXCEEDS	3080		3350		3680	
50 PERCENT EXCEEDS	1090		804		1150	
90 PERCENT EXCEEDS	280		238		330	

^a Also occurred on Sept. 20, 1949.
^b Site and datum then in use.

